

Looking Forward while looking back

The MSC awards ceremony held on the 16th of this month served to recall past accomplishments, to contemplate the future, and to announce and present MSC awards to those individuals and teams who have excelled in their contributions to the Apollo effort.

In looking back, Master of Ceremonies Richard S. Johnston commented that the ceremony was taking place on the day which commemorated NASA's 11th anniversary. Dr. George Low, the principal speaker, pointed out that one year ago on October 16, we were just half way into the first of the manned Apollo missions. He went on to say that while Apollo 11 represented a major effort for the sake of Science, it was only setting the stage for the further exploration of space. The Space Task Group, he said, in late September recommended to the President that our next focus, or long-range goal should be the manned exploration of Mars before the end of the century, with such things as space stations

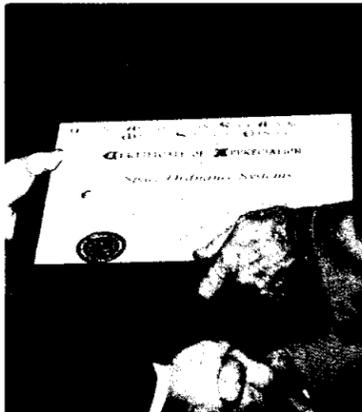
and shuttles preceding the Mars landing.

Awards were presented to MSC, contractor, and university personnel who had made major contributions to Apollo, and, specifically, to the lunar landing of Apollo 11. Dr. Gilruth emphasized that it was the team effort of the universities, industry, and

Office, the Flight Operations, Engineering and Development, Medical Research and Operations, Flight Crew Operations, Science and Applications, Program Control and Contracts, and Administrative Directorates, and to the Reliability and Quality Assurance Office, the Safety Office, and the White Sands Test Facility. Selected personnel in these areas were honored with MSC Certificates of Commendation, "For outstanding technical and management contributions to the Apollo Program through superior leadership, professional competence and personal dedication. . .".

Those receiving the Certificates were: Arnold D. Aldrich, Glenn F. Bailey, Frederick J. Bailey, Jr., Robert V. Battey, Floyd V. Bennett, Ronald L. Berry, James W. Bilodeau, Donald D. Blume, James E. Bone, Jr., Jerry C. Bostick, William C. Bradford, Glenn W. Briggs, Douglas R. Broome, Jr., William R. Carpentier, M.D., Thomas V. Chambers, John W. Conlon, Russell C. Connelly, James V. Correale, Jerry W. Craig, Chris C. Critzos,

(See Awards Page 3)



government which made Apollo 11 successful, and regretted that it was impossible to recognize all those who contributed, individually.

Group Achievement Awards were presented to the personnel of the Apollo Spacecraft Program



Russian Cosmonauts Georgiy Beregovoy and Konstantin Feotistov listen to Glynn Lunney explain Mission Control operations during their visit to MSC.

Chief Scientist named

Dr. Gene Simmons, Professor of Geophysics at M.I.T. has been appointed to the new position of Chief Scientist at MSC.

The Chief Scientist will place additional emphasis on the strong role that science will play in lunar exploration flights and other manned flights of the future. He reports directly to Dr. Gilruth and will work closely with Center management as well as with scientists throughout the world. The Chief Scientist's post was created with a view toward attracting eminently qualified scientists from academic life to NASA's manned space flight program in order to effect the closest possible ties between these programs and the scientific community.

Dr. Simmons has been closely associated with the lunar science program and was actively engaged in the preliminary analysis of lunar samples returned by the Apollo 11 crew. As Chief Scientist, he will serve as the Center's spokesman to the scientific community and will be responsible for planning and developing MSC's scientific program in conjunction with scientists throughout the world.

Dr. Simmons will continue his ties with M.I.T. Because of academic commitments, he will spend only a portion of his time at MSC.

Dr. Simmons has written over 60 papers in the field of geophysics, including the laboratory measurements of physical properties (heat flow and gravity measurements) and field interpretations and geophysical data. He spends some of his time working in marine geophysics.

A native of Carrollton, Texas, Dr. Simmons has been Professor of Geophysics at MIT for the past 4 years.



Low wins top honors

George M. Low was honored October 23 for leading the nation's Apollo Spacecraft team to a successful lunar landing.

The American Institute of Aeronautics and Astronautics elected Low to receive its prestigious Louis W. Hill Space Transportation Award. The award includes an honorarium of \$5,000.

In naming Low to receive the Hill Award Committee said it made the selection not only because of his leadership role, but because he symbolizes "The thousands of engineers who dedicated their careers, without public recognition, to the conquest of space."

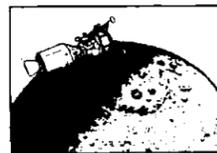
Robert H. Goddard, the "Father of American Rocketry," and MSC Director Robert R. Gilruth are among the previous winners of the Award. Dr. Gilruth will serve as AIAA General Chairman next year when the Association has its convention in Houston, sometime in October.

The Hill Award has been given annually since 1958 under terms of a trust established by the Louis W. and Maud Hill Family Foundation, to encourage and recognize significant contributions in the art and science of space flight.

ROUNDUP

NASA MANNED SPACECRAFT CENTER

HOUSTON, TEXAS



VOL. 9 NO. 1

OCTOBER 31, 1969

Moon rock now on display

A fragment of moon rock returned to Earth by the crew of Apollo 11 went on public display Wednesday in the front lobby of building 1.

The exhibit is the second such official display of returned lunar surface material in the nation; the first public display of moon rock was opened at the Smithsonian Institution in Washington, D.C., last month.

A 4-foot diameter opaque

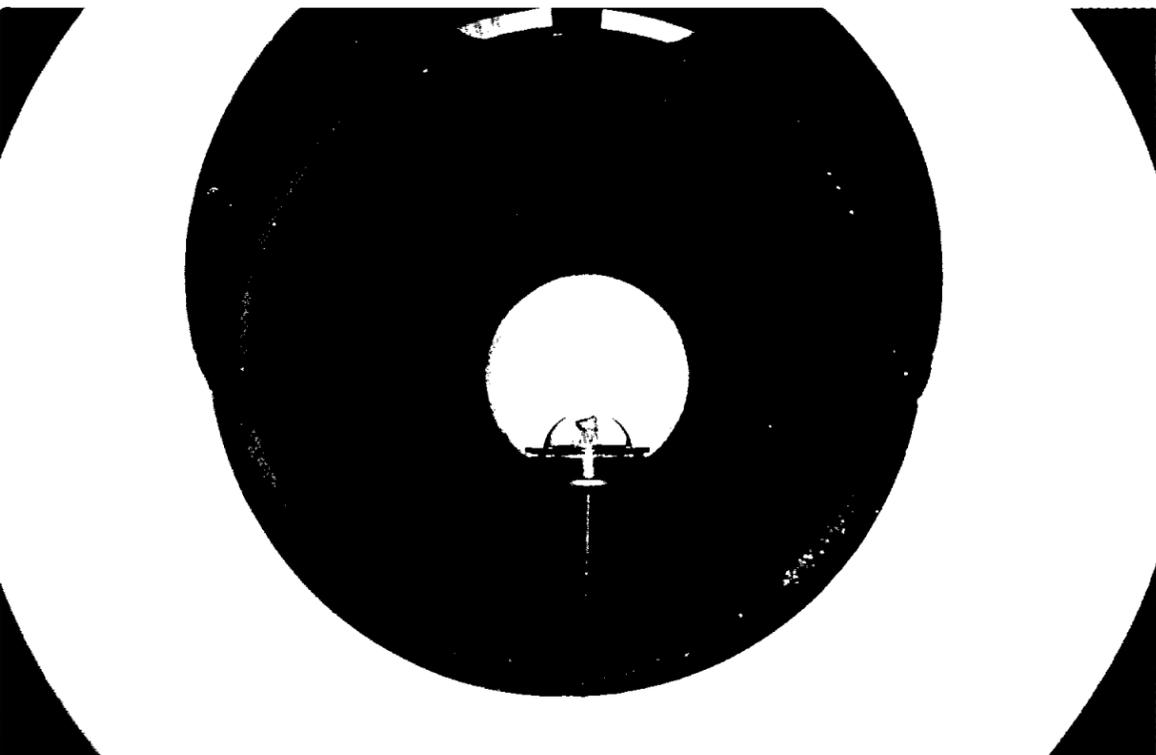
sphere with a 20-inch viewing port is the central part of the display, and 12 associated photograph and text panels complete the exhibit. The lunar rock fragment is mounted in a 4-inch hemisphere on a pedestal inside the larger sphere and is visible through the viewing port.

The rock fragment will be changed periodically as geologists in the MSC Lunar Receiving Laboratory conduct experiments

on the Apollo 11 rock samples. Viewing hours will be from 9:00 a.m. to 5:00 p.m. each week day and from 1:00 p.m. to 5:00 p.m. during the Sunday open house.

When not on display, the plastic hemisphere containing the lunar rock is stored in a locked vault for safe-keeping.

The exhibit will be moved to the auditorium rear exhibit hall as the front lobby is converted into a work area for newsmen covering Apollo missions.



Wednesday at 2 pm MSC's own sample of moon rock went on display in building 1. The sample weighs slightly over one ounce. The fine-grained crystalline fragments contain a large number of vesicles lined with highly reflective crystals.

Picnic was a smash!

Would you believe more than a ton of potato salad? Or almost two tons of barbecued beef? That's how much chow the more than 8,000 picnic-goers consumed at the biggest MSC picnic ever. If those statistics don't give you indigestion, how about 900 pounds of onions, or 100 gallons of pickles, 10,000 bags of popcorn, 15,000 spears of cotton candy, and 13,000 snow cones? And we're ashamed to say how much beer left the tap.



(George's kids) were the best-dressed children.

Betty Cushion carried a goat across the line to win the goat-sacking contest. Bill Kelly won the greased-pig contest.

Alice C. Reed and Michael Driscoll were chosen the best-dressed adults. Kim and Mark Hydrick

The boys of Scout Troop 190 spent 600 manhours cleaning up after the crowd; they have our

thanks. The money they earned will go toward new scout uniforms.

And a special thanks goes to Olga McCommis and her picnic committee, without whom none of this would have been possible.

Dave Bell (x3286) has a set of keys, lost by someone at the picnic.



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SQUEEZE on **COST**

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COST REDUCTION PROGRAM

ROUNDUP

NASA MANNED SPACECRAFT CENTER HOUSTON, TEXAS



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- Public Affairs Officer Brian M. Duff
- Editor Sally LaMere
- Staff Photographer A. "Pat" Patnesky

Bell to leave MSC

Dr. Persa R. Bell, Chief of the Lunar and Earth Sciences Division and Manager of the Lunar Receiving Laboratory at MSC since 1967, announced this week that he will leave NASA early in 1970.

Dr. Bell said he will return to the Oak Ridge National Laboratories, Oak Ridge, Tennessee, after the lunar sample analysis conference which is scheduled to be held at MSC January 5, 1970.

In announcing his resignation, Dr. Bell said, "I've enjoyed being a part of the first lunar landing mission and felt tremendous pride in being a part of the preliminary analysis of the first samples returned from the Moon." He said he fulfilled his plans -- that of getting the lunar lab ready for the first lunar sample -- and now desires to return to scientific research at Oak Ridge.

Dr. Bell managed the laboratory from the time construction was completed in June 1967.

West Mansion opens

The Lunar Science Institute -- the old West Mansion -- was officially occupied this week.

Dr. William Rubey, director of LSI and members of his staff moved into their new quarters on Monday. One of LSI's first official functions was playing host to more than 150 scientists who attended the 32nd annual meeting of the Meteoritical Society.

EAA Bulletins

CIRCUS TICKETS

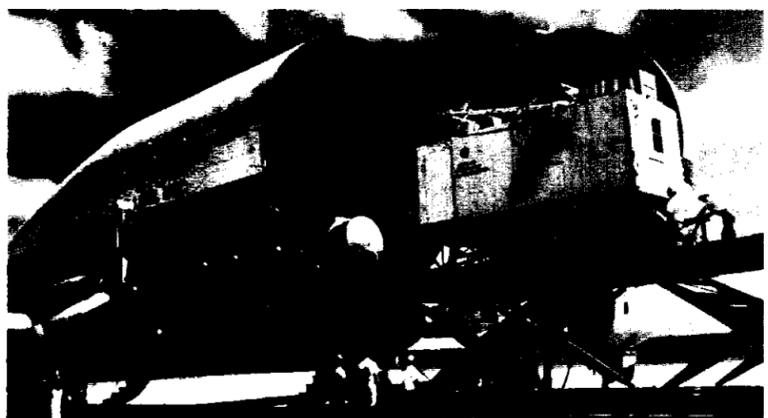
The EAA has reserved a block of seats in the middle section of the East side for the Arabian Shrine Circus for the November 8th (Saturday) performance at 10:00 am. All seats for this performance will be \$2.00 each. EAA reps have tickets at Cafeteria #1.

DUPLICATE BRIDGE

Classes and tournaments will be held for all bridge players-- from beginners to experts. The MSC Duplicate Bridge Club meets each Tuesday at 7:30 and on Sunday at 7:00 pm in Bldg 336, EAFB. A partner is guaranteed for all events. The next tournament is scheduled for November 4. Interested? See J. Raney ED86, or J. Herrmann/PP6.

Buy Bonds

Sacked Out

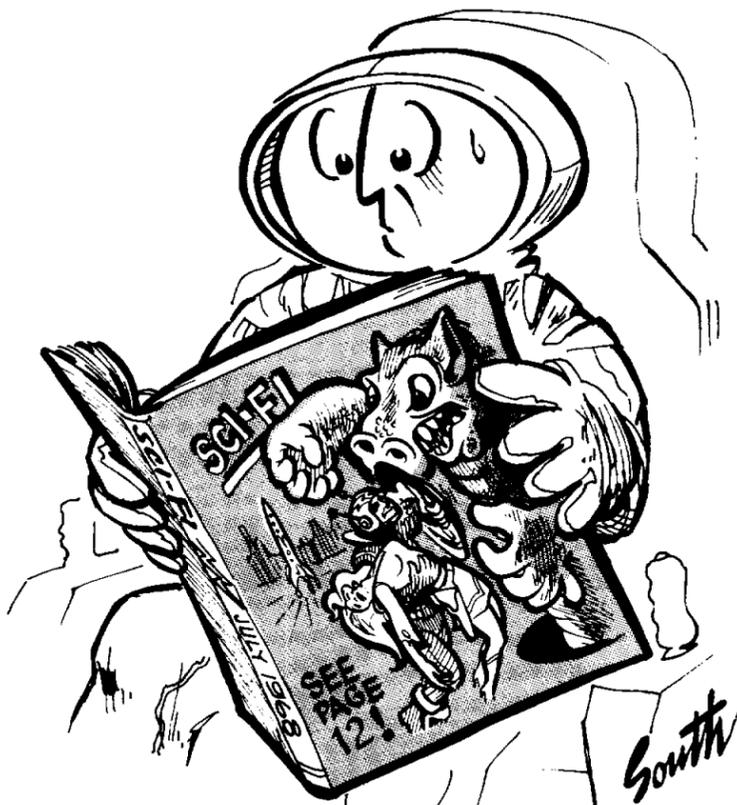


The data-acquisition system and the instrument gondola for CRISP, NASA's Cosmic Ray Ionization Spectrograph Program, are loaded into the "super-guppy". They will be

transported to Holloman AFB, New Mexico, where the 34-million cubic-foot volume balloon is scheduled to be launched on November 3. Story and pictures next issue.

THE ASTRONUTS

courtesy of TRW's gordon a. south



A NASA technician demonstrates the sleep position for an astronaut in a sleep restraint aboard the Saturn Workshop, planned for operation in 1972.

Co-Op of month



LEE DODGE
Georgia Tech
MPAD

Lee was chosen as this month's "Co-Op of the Month" based upon his contributions to the propulsion group of the Consumables Analysis Section of MPAD. He initiated and performed several refinements to the section's RCS propellant consumption computer simulation. He also contributed to the determination of RCS propellant budgets for several Apollo missions, and has performed the majority of the RCS propellant budgets required for AAP planning.

Awards Continued from Page 1

Phillip M. Deans, John E. Dornbach, Alfred B. Eickmeier, R. Bryan Erb, Robert E. Ernull, Ralph K. Everett, Richard B. Ferguson, Edison M. Fields, Lewis R. Fisher, M. P. Frank, III, Stanley C. Freden, John A. Frere, Thomas F. Gibson, Jr., Kenneth B. Gilbreath, Jesse F. Goree, Jr., Donald T. Gregory, Gerald D. Griffin, Dean F. Grimm, Walter W. Guy, Douglas R. Hendrickson, James E. Hannigan, Edward L. Hays, Clarence

A. Jernigan, M.D., Jack A. Jones, Sidney C. Jones, Jr., Joseph A. Kratovil, John B. Lee, Joseph H. Levine, Anthony L. Liccardi, Edgar C. Lineberry, Jr., Jack R. Lister, James C. McPherson, Harold G. Miller, James A. Miller, Archibald E. Morse, Jr.,

John W. O'Neill, J. Wallace Ould, Leonard E. Packham, William A. Parker, Jr., William W. Petynia, Henry O. Pohl, Jones W. Roach, Edwin Samfield, Leonard T. Spence, James C. Stokes, Jr., John C. Stoniesfer,

Clinton L. Taylor, Rob R. Tillett, Robert E. Vale, Donald C. Wade, Verl R. Wilmarth, William B. Wilson, Milton L. Windler, Donald G. Wiseman, Carroll H. Woodling, Bennie C. Wooley, Henry P. Yscheck.

Superior Achievement

Almost 200 MSC employees were then awarded the MSC Superior Achievement Award, "For outstanding contributions to the Apollo Program through professional competence and personal dedication . . ." The Awards went to:

Thomas J. Adams, Jr., J. Brooks Alldredge, Daniel H. Anderson, Peter J. Armitage, George C. Armstrong, Archie R. Beckett, David Bell, III, James P. Bigham, Jr., Peter R. Brett, Harry T. Briggs, Melvin F. Brooks, Jon H. Brown, Paige B. Burbank, Edwin J. Burke, Robert P. Burt, Arturo B. Campos, Ausley B. Carraway, Jr., Parker L. Carroll, Lewis O. Casey, Marlowe D. Cassetti, Bailey R. Chaney, James H. Chappie, William M. Chastain, Donald B. Cherry, L. Maurice Clelland, Russell E. Clickner, Jr., Maurice W. Collins, Milton C. Contella, Wayne W. Corbett, Burton G. Courpalais, James R. Crain, Monte T. Cunningham,

Larry G. Damewood, Eugene L. Davis, Jack A. Davison, Frederic S. Dawn, John F. Day, John W. Dietrich, W. Richard Downs, James L. Dragg, Stanley Faber, Norman B. Farmer, Richard G. Fenner, Craig L. Fischer, M.D., Ted H. Foss, George C. Franklin, Robert R. Frazer, John C. French, William C. Fulton,

Paul D. Gerke, Cecil R. Gibson, David W. Gilbert, Samuel V. Glorioso, Philip C. Glynn, Olin L. Graham, Allen L. Grandfield, Harold E. Granger, Claude A. Graves, Jr., David H. Greenshields, William G. Greenwood, George E. Griffith, H. Russell Hair, III, Michael J. Hamilton.

Charles S. Harlan, Elliott S. Harris, Alan C. Harter, M.D., Kenneth R. Haynes, Jack C. Heberlig, James E. Hebert, Ben W. Holder, John W. Holland, Jr., Max D. Holley, Tommy W. Holloway, Robert C. Hood, Richard A. Hoover, Edwin W. Hoskins, George F. Humbert, Jr., M. D., Benjamin C. Ingels, Jr., Richard G. Irvin.

Cecil G. Jackson, Morris V. Jenkins, John H. Johansen, Robert E. Johnson, Robert L. Johnston, Jesse C. Jones, Witalij Karakulko, William R. Kelly, John W. Kiker, Elbert A. King, Jr., Milton G. Kingsley, Robert L. Kline, Paul C. Kramer, Ronald W. Kubicki, Helmit A. Kuehnel, Pat M. Kurten,

David D. Lang, William S. Lee, Rupert A. Leonard, Jr., Robert E. Lewis, Otho C. Lindsey, Joseph P. Loftus, Jr., Michael B. Luse, Charles C. Lutz,

Stanley P. Mann, Gilbert D. Marlowe, Jr., John A. Mason, Richard E. Mayo, Riley D. McCafferty, David L. McCraw, William G. McMullen, Richard K. McSheehy, Edward L. Michel, Ford L. Miller, Clarence T. Modlin, Jr., Richard A. Moke, James S. Moore, Thomas E. Moore, Donald A. Morrison,

James L. Neal, Donald K. Netz-



Directorate heads wait to receive Group Achievement Awards for their directorates.

band, Lee R. Nichols, Delores B. O'Hara, Shelby L. Owens,

Richard P. Parten, Andrew W. Pateson, William M. Patton, Fred T. Pearce, Jr., David B. Pendley, Chris D. Perner, Calvin H. Perrine, Jr., Richard J. Piotrowski, James L. Raney, Bass Redd, Gene T. Rice, William E. Rice, Louie G. Richard, Carl A. Romero,

Frank H. Samonski, Jr., Samuel D. Sanborn, James M. Satterfield, Richard L. Sauer, Emil R. Schiesser, Jones P. Seigler, John R. Sevier, Jr., Philip C. Shaffer, James J. Shannon, Carl B. Shelley, Paul W. Shores, Edwin W. Sievers, Jr., Clyde J. Stoker, Donald E. Stullken, Harley L. Stutesman, Jr., William L. Swingle,

Elmer L. Taylor, James B. Tollison, Jr., James L. Tomberlin, Neil A. Townsend, Arthur D. Travis, Albert R. Turley, Richard W. Underwood.

Charles M. Vaughn, Robert J. Ward, Anthony W. Wardell, Jeffrey L. Warner, Dwayne P. Weary, Raymond E. Wilson, Jr., Woodrow W. Wilson, Robert J. Wren, Charles W. Yodzis, Earle B. Young, John G. Zarcaro, Raymond G. Zedekar.

Group and individual Certifi-

cates of Appreciation were also presented to other government and industry teams, for their contributions in making the Apollo 11 mission a successful one.

In closing, mention was made of those awards which have gone to MSC personnel during the year for cost reduction, suggestions, for Sustained Superior Performance, and for Outstanding Performance during the year.

Stamp Club Jamboree

Come buy, sell, or swap stamps at the MSC stamp club jamboree in the Webster Civic Center. 10 dealers will be on hand from 10 am to 5 pm on Saturday, November 15. Call Alan Doyle, 7278, or Matt Radnofsky, 3343, for more information.

Buy Bonds

Roundup Swap-Shop

(Deadline for Swap-Shop classified ad is the Thursday preceding Roundup publication date. Ads received after the deadline will be run in the next following issue. Ads are limited to MSC civil service employees and assigned military personnel. Maximum length is 15 words, including name, office code and home telephone number. Send ads in writing to Roundup Editor, AP3.)

REAL ESTATE

3-2-2 Seabrook, Miramar, brick, near schools, carpet, central A/H, equity, assume 6 1/2%. Littlefield, GR4-2428.
Small frame house in Dickinson near Bayou, wooded lot, storage building in back, 658-4855 (Alvin) after 5.
3-2-2 Nassau Bay colonial, fenced, corner, formal living and dining, paneled den, fireplace, custom draped, carpeted, 5 1/2%, 591-2340.
Large lot on Pirate's Beach about 1 block from Galveston Bay \$3950 total, 667-4532.

AUTOMOBILES

1964 MGB, wire wheels, new convertible top, good condition, J. Small, HU3-6203 or 591-2315.
69 Corvette coupe, 4-speed, air, AM/FM, positraction, power steering, white-silver interior, owner, 591-2616.
60 MGA, runs well, Deiterich, 482-1859.
59 Triumph TR-3, top, tonneau cover, boot, side curtains, and R/H. A. Crowder, 488-5378.
64 Pontiac Catalina, loaded, excellent condition, white with turquoise interior. Franklin, 932-6057.
68 Chevrolet AM/FM radio, B. Boone, x 2538, or 944-0613 after 6.
65 VW bug, radio, heater, excellent condition, \$850. J. Streit, x 2658 or 482-1559.
68 GTO, factory air, power steering and bakes, factory mag wheels, tachometer and rally pack, tinted glass, 400 cubic inch engine, 4-speed transmission, \$2700. K. Dickens, HO2-5636 evenings and weekends.
62 Triumph TR-4, needs tires and paint, mechanically sound, \$525. x 2385.
58 TR-3, engine and transmission, excellent condition, \$175. Also doors, hood, inst., etc., make offer. R. Hagood, x 2385.
67 Buick Wildcat Custom, 2-dr hardtop, air, power steering, power brakes, FM stereo,

chrome wheels, \$2100. K. Land, x 5566 or 643-1080.
1968 Honda CL-90 Scrambler, recent tune-up, good rubber, looks like new. B. Reina, 488-1326.
63 Chevy 1/2 ton, LWB, 6 cyl, stepside bed, delux heater, good condition, no rust, \$495, J. Finlayson, 591-3446.
60 Rambler station wagon, air conditioned, std. trans., radio, good tires, good work car, \$200 B. G. Smith.
53 Chevy, 6 cyl, stick, body in good shape, engine needs work, 35, D. Trent, x 5361.
69 Dodge hardtop, all power, take up payments. 667-3000.
64 Pontiac Catalina, loaded, excellent condition, white w/eurquoise interior. J. Franklin, 932-6057.
67 T-bird Landau, 4-door, 25,000 miles, excellent, 488-4188.
65 T-bird, automatic, air, AM/FM, all power, new polyglas tires, \$1500, 534-2607 (Dickinson).
62 Jaguar XKE conv. red, xint condition, \$1700. 665-3639.
68 VW sedan, radio, air-conditioned beige. J. Vyner 483-3057.
62 VW Beetle, good tires, 65,000 miles, \$400 534-3100 (Dickinson).
Take up payments on 1965 Delta 88 Oldsmobile, 4-door, AC radio, heater. J. Stone, x2369.
68 Chevelle SS 396, \$2195. 67 Jaguar E-type 402 roadster, 13,000 miles. 68 Pontiac Lemans, \$2295. B. Oczkowski, 926-8994.
66 Dynamic 88 Oldsmobile, power steering and brakes, R/H, A/C, excellent condition, \$1475 (\$380 down) Brady, x 3057, or 877-4801.
Chevelle 396 Super Sport, R/H, air, power, stereo hookup, blue book \$1700, sacrifice for \$1395. C. Hooper, 877-1328.

68 Chevrolet AM/FM radio with antenna. B. Boone, x 2538 or 944-0613 after 6.
65 Valiant wagon, air, excellent, \$950. J. Booker. 488-3668.
68 Corvette Coupe, 4 speed; air; power steering; positraction; low mileage; one owner. Samonski, 877-4795.
60 Sunbeam Alpine Roadster, three tops, electric overdrive, new tires, \$300. Ramey, 946-7720 after 5:30.
67 Mustang 2+2, 390, 4 speed, air, GT kit, tinted glass, styled steel covers. Rainey, 474-2937 after 5.
Chevelle SS396, vinyl roof, air, power steering, mags, new tires, stereo; Oczkowski, 926-8994.

Hockey, anyone?

The Houston Youth Hockey Organization invites MSC parents of boys six to fifteen years of age who are interested in ice hockey to sign their children up for classes and scrimmages. All equipment can be provided. Sessions are held at Winterland Ice Skating Arena, 2400 Norfolk, in Houston. Beginners play on Saturday from 7:30 to 9:00 am; team play is from 6:00 pm to 7:30 pm on Mondays. Call 529-1610 for further information.

MISCELLANEOUS

.4 carat diamond engagement ring, quality stone, sell for best reasonable offer, Turner, x 2786.
1 1/2 lb Brunswick Fireball bowling ball and case, \$5, Colton 488-8962.
Air lift air springs, fit MG-TD/TF & ?, \$5, TR-4 front bumper guards (2), 10, two T-bar clothes line poles with line, \$5, Colton, 488-8962.
Found: 1961 girl's h.s. class ring, Indian head on pearl motif, R. Thirolf, 488-5037.
Drum set, bass, snare, tom-tom, cymbal, sticks, good condition, \$50, 591-2866.
High chair, \$8, baby seat, \$2, playtex nurser set, \$3, danish sectional couches, \$15, bird cage, \$3, HU7-0792.
Herters reloading press, 38 special dies, lead shear, bullet swedge, shell holders, \$22, N. Prince, x 3871, or MI9-7952.
30-06 factory sporterized Mauser (Golden State Arms) with Bushnell Banner 4x scope. Excellent condition, \$85, Price, x 4818, or GR1-3314.
Sears b/w TV, 3 years old, excellent condition, nice walnut cabinet, 23", \$75, 488-3238.
2 six-week old female part-Beagle puppies, free, 948-3095 (Texas City).
Complete set of men's golf clubs, almost new, including putter, \$50, G. D. Griffin, 591-3512.
Columbia AM/FM console stereo, total unit in 2 matching limed oak cabinets, 24" x 30" x 15", 3 speakers each cabinet, storage for 80 records, \$100, E. Rubenstein, 877-3288.
Americana and Book of Knowledge, complete, \$75, 944-3871.
.303 caliber Enfield deer rifle, custom stock, with ammo, \$40; 52" recurved wing hunting bow, 49 lb. pull, \$30; Bart Starr exer-gym, 1 mo. old, \$20, 472-6126.
Fiberglass surfboard, \$15, 488-5159.

18' Rayson craft ski and racing boat, 500 hp/427, excellent condition, 926-8994.
Braumberger manual slide projector with 600 aluminum slide frames, 500 Watt, \$20. Colton, 488-8962.
AIWA tape recorder, variable speed, \$5. Base reflex speaker cabinet, birch, 20, Colton, 488-8962.
14' A-1 Sea King fishing boat with small wheel trailer, \$85, 479-2436.
German Shepherd dog for breeding in return for pick of litter, registered EAK, champion mother, 877-1328.
Modern turquoise washing machine, \$10, C. C. Hooper, X-5126.
HOME FURNISHINGS
Spanish couch, 3 cushion, distressed wood sides and arms, very good condition, \$100, Evans, x 4991.
Early-American table, \$40, 944-3871.
Brown vinyl covered recliner chair, good condition, \$35, 591-3512.
Trade double bed with Sealy box springs and innerspring mattress for twin beds with or without springs and mattresses, 488-3238.
2 walnut end tables, \$10 each; 1 club chair, floral pattern, \$20; 1 little girl's white bed, floral trim head and foot, good condition, \$20; 1 blond wood double bed head and foot, \$10; 4 dining room chairs, maple, 6 each, HU8-0687 after 5 pm.
WANTED
Babysitting jobs in Clear Lake area, available week nights and weekends, G. Isenhower, x 6384 or 932-2894 after 5.
Used ski equipment for adults and/or children. Need boots, poles, skis, pants, gloves. Have size 9-9 1/2 boots, will sell or trade for size 8 1/2. G. D. Griffin, 591-3512.
Surfboard racks, not suction type. P. F. Hurt, HU2-7837.
Roommate to share home with 2 young men at 210 Walnut in Webster, \$85 furnished,

Cosmonauts visit MSC



RUSSIAN COSMONAUTES Beregovoy and Feoktistov look as if they have some questions about the space suits worn by American astronauts (left). And Major General Beregovoy appeared most interested in the explanation Colonel Frank Borman, the pair's host, gave on the T-38 jet trainer. Cosmonaut Konstantin Feoktistov looks on.

Davy Jones' Locker

Five master divers, all members of the MSC Lunarfins SCUBA club, joined 40 other divers from throughout the United States chosen to investigate an unknown part of the floor of the Gulf of Mexico. The five, E. L. Beckman, W. F. Moran, J. M. Peacock, F. C. Toole, and H. M. Scott, boarded the USS *Haynsworth* last August 7 to participate in an expedition sponsored by the Northwestern Gulf Mollusk Population Survey, supported by the Houston Museum of Natural Science.

The purpose of the expedition was to investigate several formations presumed to be coral or salt which had grown into domes rising from the floor of the Gulf, and to bring up samples of the organic and inorganic matter from these formations.

Needle in a haystack

Finding the reefs was a task in itself. The reefs were known to lie somewhere 130 to 150 miles south-southwest of Bolivar Roads, but no one knew exactly where. The search for one dome had to be abandoned. The cone was too small, the currents were too strong, and the water too deep for divers to be able to locate it. When the divers went down 240 feet without locating the cone it



Piscine life flees the intruder's lens

was decided to move on to the coral-like formation. Finally, in the afternoon of the second day, this formation was located.

Dangerous work

The divers, working in teams of three, probed to depths ranging from 65 to 185 feet. At the latter depth, nitrogen narcosis ("Rapture of the Deep") was inevitable. Knowing that this could be expected, "simulations" were run before the expedition began, to give the divers a chance to see what their reactions would be to the kind of euphoria, similar to that produced by alcohol, which nitrogen narcosis produces.

There were other dangers—barracuda, water currents so strong that the divers had to use heavy diving lines to descend and ascend, their bodies trailing out at right angles to the lines because of the currents.

Safety precautions were stringent: two lifeboats were in the water at all times; teams of "safety" divers stood by to



double-check each diver's stay time on the bottom and his decompression stops on the way up, and were on hand if the divers should lose their grip on the line and require assistance. A recompression chamber was also on board, in case of emergency.

The divers brought up samples of shell and sea bottom to be studied by the participating scientists. Divers Scott and Toole photographed what they consider some of the most beautiful coral formations they have ever seen, and some of the largest marine life identified in the Gulf. Jim Peacock was able to recover the second largest known example of one type of mollusc. In all, it is estimated that a year may be expended in analysing all that was recovered.

Channel 11 television will present a color documentary on the expedition, tentatively entitled "Project 24", in late November.

Your Job in Focus

Health benefit programs Open-Season Nov. 10-28

All employees enrolled in plans under the Federal Employees Health Benefits Program will have an opportunity to change their enrollments during the open season scheduled for November 10 through 28. Eligible employees who are not presently enrolled will be able to join the program. Enrolled employees will be able to make the following changes in their enrollment:

- change from one plan to another.
- change from one option to another in the same or a different plan.
- change from self-only to self and family.

"Open Season Instructions", revised brochures for the Aetna and Blue Cross plans, and instructions for making changes will be distributed to all employees the

week of November.

Be sure to check the brochures carefully, since most plans are being revised this year. Rates, benefits, or both will change Jan. 1, 1970.

NASA travel insurance

NASA Travel Accident Insurance was recently renewed for enrolled employees. All NASA employees are eligible for this coverage even if they are not enrolled in the regular Group Life Insurance Program. Enrollments are accepted at any time during the year. See T. Rasberry, x5410, for further information.

Hjornevik goes to O.E.O.; Bogart replaces

Lt. Gen. Frank A. Bogart (USAF Ret.) has been appointed Associate Director of the National Aeronautics and Space Administration Manned Spacecraft Center, Houston, succeeding Wesley L. Hjornevik who has been nominated by President Nixon to be Deputy Director of the Office of Economic Opportunity.

General Bogart joined NASA in December 1964 as a special assistant to the Associate Administrator for Manned Space Flight. He was named Deputy Associate Administrator (Management) in September 1965.

General Bogart is a 1931 graduate of the United States Military Academy. His military service includes assignments in the United States Army and United States Air Force. He was Comptroller of the Air Force when he retired in 1964.

Hjornevik joined NASA as Assistant to the Administrator to deal with special organizational and planning problems and to act as liaison with other government agencies. As chairman of the NASA Budget Analysis Team he worked on relocation of the Space Task Group from Langley AFB, Virginia to Houston and establishment of the Manned Spacecraft Center.

Hjornevik was appointed Director of Administration for the Manned Spacecraft Center in November 1961, and

in January 1968 he was named Associate Director of the Manned Spacecraft Center, responsible for the total intergrated administrative management of the Center and its programs.

Calio to head S&AD



Mr. Anthony J. Calio was officially named to the position of Director of Science and Applications at MSC in an announcement made by Center Director Robert R. Gilruth.

Mr. Calio, who has served as Deputy Director for Projects in the Science Directorate since February 1968, will be responsible for the general management